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10/706,617	11/12/2003	Shinya Wada	SCEP 20.732 (100809-00225	5866
26304 7590 11/01/2007 KATTEN MUCHIN ROSENMAN LLP 575 MADISON AVENUE			EXAMINER	
			TIMBLIN, ROBERT M	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
· .	10/706,617	WADA, SHINYA	
Office Action Summary	Examiner	Art Unit	<del></del>
	Robert M. Timblin	2167	
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC .136(a). In no event, however, may a red d will apply and will expire SIX (6) MON tte, cause the application to become AB	CATION.  pply be timely filed  THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 14.	<u>August 2007</u> .	•	
·—	is action is non-final.		
3) Since this application is in condition for allow			;
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.	
Disposition of Claims		· ·	
4)⊠ Claim(s) <u>1-16 and 20-25</u> is/are pending in the	e application.		
4a) Of the above claim(s) is/are withdr	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-16 and 20-25</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
9) The specification is objected to by the Examir	ner.		
10) The drawing(s) filed on is/are: a) ac	cepted or b) objected to I	by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre		•	J).
11) The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreig a) ☐ All b) ☐ Some * c) ☐ None of:		119(a)-(d) or (f).	
1. Certified copies of the priority documer			
2. Certified copies of the priority documer		<del></del>	
<ul><li>3. Copies of the certified copies of the pri application from the International Bures</li></ul>		received in this National Stage	
* See the attached detailed Office action for a lis	, , , , , , , , , , , , , , , , , , , ,	received	
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Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413) )/Mail Date	
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)</li> </ul>		formal Patent Application	
Paper No(s)/Mail Date <u>7/20/2007</u> .	6) Other:		

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

### **DETAILED ACTION**

This office action corresponds to application 10/706,617 filed 11/12/2003.

# Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/14/2007 has been entered.

## Response to Amendment

Claims 1, 2, 10-12, 14, and 20-25 have been amended with the response submitted 8/14/2007. Accordingly, claims 1-16 and 20-25 are pending in this application.

#### Information Disclosure Statement

The information disclosure statement (IDS) submitted on 7/20/2007 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the examiner is considering the information disclosure statement.

## Claim Objections

Claims 2-9, and 11-16objected to because of the following informalities: these dependent claims are preferred to read in the form "*The* (apparatus/method) according to..." as to clearly indicate the incorporation of the independent claim into the dependent claims. See MPEP 608.01 (n). Changing "A" to "*The*" in the dependent claims is respectfully requested.

## Claim Rejections - 35 USC § 112

The previous 35 U.S.C. 112 rejections have been withdrawn.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-6, 9, 10, 12-14, 16, and 20-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki et al. (Aoki) (U.S. Patent 6,253,218) in view of Brosnan et al. (Brosnan hereafter) U.S. Patent Application 2004/0002380.

With respect to claim 1, Aoki teaches in at least embodiment 1 (starting line 30 of column 8 and figures 1-13) a file processing apparatus, including:

Art Unit: 2167

an attribute input unit (102) which acquires a value of an attribute (col. 2 line 45) for at least one file (col. 2 line 10) in order to represent a value of a predetermined attribute for an intended file (as a data characteristics detecting section 102 that corresponds to the attribute input unit col. 8 lines 46-50 and figure 1, 108) by using a concept of weight (col. 20 line 30-67; i.e. judging density suggests a concept of weight);

a comparison processing (judging section 43) unit which compares the value of an attribute with a reference value (as data characteristics detecting section extracts attribute values of data from database, such as the date of creation and the data model generating section generates a 3-D data model according to the extracted attribute values of the data. The data model placing section calculates a display position of the 3-D data model on the 3-D coordinate space and 3-D data model set at a position, which visually represents the attribute such as the data of generation of the data (embodiment 1, column 9). By these teachings, a comparison had to have been made of the date of creation of the data with the date represented by the original point in the 3-D space for determining the display position).

a position determining unit (106) which sets, based on a result obtained from said comparison processing unit (judging section 43), a relative display position of a predetermined object (col. 20 line 43 and at least figures 46-47) that represents symbolically the weight (i.e. density).

a display processing unit (107) which visually represents the value of the attribute (col. 2 line 45), by displaying the object at the display position on a screen set by said position determining unit (as the display section outputs the placing result; col. 9 lines 23-25).

Art Unit: 2167

Aoki fails to explicitly teach the display position indicates that a virtual force is exerted on the object displayed on the screen at least in one direction.

Brosnan, however, teaches the display position indicates that a virtual force is exerted on the object displayed on the screen at least in one direction (0073 and 0130) for simulating the display of objects on a screen as determined by their properties (see also Brosnan, 0138).

In the same field of endeavor, (i.e. displaying objects according to their attributes), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because the virtual forces, as provided by Brosnan, would have given Aoki's system better visualization of data items represented on a screen for the benefit of a user to better understand the placement of data relative to other data and furthermore making it easier for a user to manage that data (need shown by Aoki at col. 2 line 10-16).

With respect to claim 3, Aoki teaches a file processing apparatus according to claim 1, wherein said attribute input unit acquires values of the attribute for a plurality of files (detecting data), said comparison processing unit sets a value of an attribute for at least one of the plurality of files to the reference value, said position determining unit sets relative display positions of a plurality of objects corresponding to the plurality of files, respectively, and wherein said display processing unit displays the plurality of files at the respective display positions and visually represents the comparison of weights of the files via another object representative of the measurement of the weights (col. 9,

Art Unit: 2167

lines 1-10 and figures 1-2) Therein data characteristics and data attributes are detected. After, a 3-D data model is determined by the obtained information.

With respect to claim 4, Aoki teaches a file processing apparatus according to claim 3 wherein said comparison processing unit sets, as the reference value, a size of a storage area that stores at least one file, said position determining unit sets a relative display position of an object indicative of the storage area according to the size of the storage area, and wherein said display processing unit visually expresses the comparison of data size between the at least one file and the storage area via the another object. As seen in embodiment 1 starting in column 8 and specifically in col. 9 lines 5-15 as a display pattern is based upon data characteristics which correlate to reference values.

With respect to claim 5, Aoki teaches a file processing apparatus according to claim 1, wherein said attribute input unit acquires values of an attribute for a plurality of files and said comparison processing unit classifies the plurality of files into a plurality of groups according to the respective values of the attribute, and wherein said display processing unit displays the object in an appearance corresponding to the respective groups as categories (col. 9 line 20).

With respect to claim 6, Aoki teaches a file processing apparatus according to claim 1, wherein said attribute input unit acquires values of an attribute for a plurality of files (col. 9 lines 5-10), said comparison processing unit classifies the plurality of files

Art Unit: 2167

into a plurality of classes and sequentially compares the values of an attribute for each class (col. 9 line 20), wherein, after relative display positions are temporarily determined respectively as positions that initially display objects for the plurality of files (figure 2), said position determining unit sequentially updates the relative display positions in a manner such that comparison results for each class are reflected for each class, and wherein said display processing unit varies the display of the objects according to said updating after the plurality of files are displayed at the temporally determined relative display positions (taught at least by embodiment 15 in column 26 and figure 83).

With respect to claim 9, Aoki teaches a file processing apparatus according to claim 1 further including:

an instruction receiving unit which receive an instruction from a user intending to change the display (abstract and col. 3 line 8-10; i.e. a user directing change) position of the object as an input section (108 of figure 1); and

an effect generator (figure 13) which causes, based on the instruction, said position determining unit and said display processing unit to process a change in any of position, shape and appearance of the object (as a viewpoint changing section 109 of figure 1).

With respect to claim 10 Aoki teaches a method of processing files, including:

setting a relative display position of a predetermined object that symbolically represents the files in terms of whether the weight thereof is heavy or light (col. 20 line 67; i.e. density suggests a concept of heavy/light weight), based on a value of a

predetermined attribute for an intended file, in order to represent the value of a predetermined attribute therefor by using a concept of weight (col. 9 lines 15-20); and

representing visually the weight by displaying the object at the relative display position on a screen (col. 9 lines 23-25).

Aoki fails to explicitly teach the relative display position indicates that a virtual force is exerted on the object displayed on the screen at least in one direction.

Brosnan, however, teaches the relative display position indicates that a virtual force is exerted on the object displayed on the screen at least in one direction (0073 and 0130) for simulating the display of objects on a screen as determined by their properties (see also Brosnan, 0138).

In the same field of endeavor, (i.e. displaying objects according to their attributes), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because the virtual forces, as provided by Brosnan, would have given Aoki's system better visualization of data items represented on a screen for the benefit of a user to better understand the placement of data relative to other data and furthermore making it easier for a user to manage that data (need shown by Aoki at col. 2 line 10-16).

With respect to claim 12, Aoki teaches A method of processing files, including: acquiring values (102; i.e. detecting data characteristics) of a predetermined attribute (col. 2 line 45) for a plurality, of intended files (col. 2 line 10) in order to represent the values of a predetermined attribute therefor by using a concept of weight (i.e. density; col. 20);

Art Unit: 2167

setting (108), for each of the plurality of files (col. 2 line 10), a relative display position of a predetermined object that represents symbolically the files (col. 3 line 5-10, and at least figures 1, 2, and 46-47) in terms of whether the weight thereof is heavy or light (i.e. density, col. 20 line 30-67), based on the values of a predetermined attribute (col. 2 line 45); and

displaying the objects of the plurality of files at the respective display positions on a screen (drawing reference 107), and expressing visually comparison of the weights of the objects via another object that symbolizes weight measurement (figures 44-47; i.e. denser objects are represented deeper on the z-axis), wherein

Aoki fails to explicitly teach the relative display position indicates that a virtual force is exerted on the object displayed on the screen at least in one direction.

Brosnan, however, teaches the relative display position indicates that a virtual force is exerted on the object displayed on the screen at least in one direction (0073 and 0130) for simulating the display of objects on a screen as determined by their properties (see also Brosnan, 0138).

In the same field of endeavor, (i.e. displaying objects according to their attributes), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because the virtual forces, as provided by Brosnan, would have given Aoki's system better visualization of data items represented on a screen for the benefit of a user to better understand the placement of data relative to other data and furthermore making it easier for a user to manage that data (need shown by Aoki at col. 2 line 10-16).

Art Unit: 2167

With respect to claim 13, Aoki teaches a method of processing files according to claim 12, wherein said acquiring further acquires a size of a storage area that stores at least one file (col. 9 lines 5-10), and said setting sets the relative display position of at least one object corresponding to the at least one file, based on a comparison result obtained by comparing a data size between the at least one object and the storage area (embodiment 1, column 9), and wherein said displaying and expressing represents visually the comparison result via the another object (display section 107).

With respect to claim 14, Aoki teaches a method of processing files, including:

acquiring values of a predetermined attribute for a plurality of files, in order to represent the values of a predetermined attribute for intended files (col. 8 lines 46-50 and figure 1, 108, 102) by using a concept of weight (i.e. density, col. 20);

setting a temporary sequence for the plurality of files (figure 2 and col. 9 lines 1-20; 3-D model);

determining, based on the temporary sequence (figure 2), a temporary display position of a predetermined object (figures 44-47) that symbolically represents the files in terms of whether the weight thereof is heavy or light (i.e. density, col. 20):

displaying an object that corresponds to the plurality of files (col. 2 line 10), at the temporary display position on a screen (figure 2, 202, 203);

comparing the values of a predetermined attribute between adjacent files in the temporary sequence (embodiment 1, column 9);

updating the display position based on a comparison result obtained from said comparing (col.34 lines 9-20); and

Art Unit: 2167

representing visually the weight thereof by varying display contents according to said updating (as a display pattern determined based on size; col. 9 lines 8-10), wherein

Aoki fails to explicitly teach the temporary display position indicates that a virtual force is exerted on the object displayed on the screen at least in one direction.

Brosnan, however, teaches the temporary display position indicates that a virtual force is exerted on the object displayed on the screen at least in one direction (0073 and 0130) for simulating the display of objects on a screen as determined by their properties (see also Brosnan, 0138).

In the same field of endeavor, (i.e. displaying objects according to their attributes), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because the virtual forces, as provided by Brosnan, would have given Aoki's system better visualization of data items represented on a screen for the benefit of a user to better understand the placement of data relative to other data and furthermore making it easier for a user to manage that data (need shown by Aoki at col. 2 line 10-16).

With respect to claim 16, Aoki teaches a method of processing files according to claim 10, further including: acquiring an instruction from a user who intends to cause a display position of the object to be changed; and changing at least one of position, shape and appearance of the object, based on the instruction. This limitation is taught by Aoki wherein a user inputs a command for changing the view by means of the input section (embodiment 1, column 9).

Art Unit: 2167

With respect to claim 20, Aoki teaches A computer-readable recording medium which stores a program executable by a computer, the program including the functions of:

setting a relative display position (fig. 47) of a predetermined object (drawing reference 208) that symbolically represents the files (e.g. files in figure 47) in terms of whether the weight thereof is heavy or light (i.e. density, suggesting weight; col. 20, lines 24-65), based on a value of a predetermined attribute for an intended file (figure 2, drawing reference 202), in order to represent the value of a predetermined attribute therefor by using a concept of weight (i.e. density, col. 20); and

representing visually (drawing reference 208) the weight by displaying the object at the relative display position on a screen (col. 20 lines 30-46; i.e. Aoki discloses placing data in subspaces according to density).

Aoki fails to explicitly teach the relative display position indicates that a virtual force is exerted on the object displayed on the screen at least in one direction.

Brosnan, however, teaches the relative display position indicates that a virtual force is exerted on the object displayed on the screen at least in one direction (0073 and 0130) for simulating the display of objects on a screen as determined by their properties (see also Brosnan, 0138).

In the same field of endeavor, (i.e. displaying objects according to their attributes), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because the virtual forces, as provided by Brosnan, would have given Aoki's system

Art Unit: 2167

better visualization of data items represented on a screen for the benefit of a user to better understand the placement of data relative to other data and furthermore making it easier for a user to manage that data (need shown by Aoki at col. 2 line 10-16).

With respect to claim 21, Aoki teaches A computer-readable recording medium which stores a program executable by a computer, the program including the functions:

acquiring values (102; i.e. detecting data characteristics) of a predetermined attribute (col. 2 line 45) for a plurality, of intended files (col. 2 line 10) in order to represent the values of a predetermined attribute therefor by using a concept of weight (i.e. density; col. 20);

setting (108), for each of the plurality of files (col. 2 line 10), a relative display position of a predetermined object that represents symbolically the files (col. 3 line 5-10, and at least figures 1, 2, and 46-47) in terms of whether the weight thereof is heavy or light (i.e. density, col. 20 line 30-67), based on the values of a predetermined attribute (col. 2 line 45); and

displaying the objects of the plurality of files at the respective display positions on a screen (drawing reference 107), and expressing visually comparison of the weights of the objects via another object that symbolizes weight measurement (figures 44-47; i.e. denser objects are represented deeper on the z-axis), wherein

Aoki fails to explicitly teach the relative display position indicates that a virtual force is exerted on the object displayed on the screen at least in one direction.

Brosnan, however, teaches the relative display position indicates that a virtual force is exerted on the object displayed on the screen at least in one direction (0073)

Art Unit: 2167

and 0130) for simulating the display of objects on a screen as determined by their properties (see also Brosnan, 0138).

In the same field of endeavor, (i.e. displaying objects according to their attributes), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because the virtual forces, as provided by Brosnan, would have given Aoki's system better visualization of data items represented on a screen for the benefit of a user to better understand the placement of data relative to other data and furthermore making it easier for a user to manage that data (need shown by Aoki at col. 2 line 10-16).

With respect to claim 22, Aoki teaches A computer-readable recording medium which stores a program executable by a computer, the program including the functions of:

acquiring values of a predetermined attribute for a plurality of files, in order to represent the values of a predetermined attribute for intended files (col. 8 lines 46-50 and figure 1, 108, 102) by using a concept of weight (i.e. density, col. 20);

setting a temporary sequence for the plurality of files (figure 2 and col. 9 lines 1-20; 3-D model);

determining, based on the temporary sequence (figure 2), a temporary display position of a predetermined object (figures 44-47) that symbolically represents the files (col. 2 line 10) in terms of whether the weight thereof is heavy or light (i.e. density, col. 20);

Art Unit: 2167

displaying an object that corresponds to the plurality of files (col. 2 line 10), at the temporary display position on a screen (figure 2, 202, 203);

comparing the values of a predetermined attribute between adjacent files in the temporary sequence (embodiment 1, column 9);

updating the display position based on a comparison result obtained from said comparing (col.34 lines 9-20); and

representing visually the weight thereof by varying display contents according to said updating (as a display pattern determined based on size; col. 9 lines 8-10), wherein

Aoki fails to explicitly teach the temporary display position indicates that a virtual force is exerted on the object displayed on the screen at least in one direction.

Brosnan, however, teaches the temporary display position indicates that a virtual force is exerted on the object displayed on the screen at least in one direction (0073 and 0130) for simulating the display of objects on a screen as determined by their properties (see also Brosnan, 0138).

In the same field of endeavor, (i.e. displaying objects according to their attributes), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because the virtual forces, as provided by Brosnan, would have given Aoki's system better visualization of data items represented on a screen for the benefit of a user to better understand the placement of data relative to other data and furthermore making it easier for a user to manage that data (need shown by Aoki at col. 2 line 10-16).

With respect to claim 23, Aoki teaches a file processing apparatus, including;

an attribute input unit (102) adapted to acquire a value of an attribute (col.2 line 46) for at least one file (col. 2 line 10) in order to represent the value of the attribute by using a concept of density (as thickness; col. 10, line 10, col. 11 line 24-27, col. 24 lines 16-20 and figures 8, 46, 47, and density; col. 20, line 30-45 and line 55-65);

a position determining unit (106) which sets a relative display position of a predetermined object (drawing reference 208, figure 47) representing the at least one file (col. 2 line 10), the relative display position representing the value of the attribute (figure 8 and col. 10 line 6-15; i.e. size attribute) by comparing the value in terms of the density (col. 20 line 38) representing the value of the attribute by comparing the value in terms of the density (figure 44, 47, reference 208 and col. 21 lines 16-22),

a display processing unit (107) adapted to visually represent the predetermined object in the relative display position by displaying the object at the relative display position on a screen (col. 9 lines 23-25).

Aoki fails to expressly teach a virtual buoyant force exerted on the predetermined object displayed on the screen in at least one direction. Brosnan, however, teaches virtual buoyant force exerted on the predetermined object displayed on the screen in at least one direction (0073, 0130) for simulating the movement of objects in a display (Brosnan, 0130 first two lines).

In the same field of endeavor, (i.e. displaying objects according to their attributes), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because the virtual forces, as provided by Brosnan, would have given Aoki's system

Art Unit: 2167

better visualization of data items represented on a screen for the benefit of a user to better understand the placement of data relative to other data and furthermore making it easier for a user to manage that data (need shown by Aoki at col. 2 line 10-16).

With respect to claim 24, Aoki teaches a method of processing files, including:

acquiring values of a predetermined attribute for a plurality of intended files (102, detecting characteristics) in order to represent the values of a predetermined attribute therefor by using a concept of density (as thickness; col. 10, line 10, col. 11 line 24-27, col. 24 lines 16-20 and figures 8, 46, 47, and density; col. 20, line 30-45 and line 55-65);

setting, for each of the plurality of files, a relative display position of a predetermined object that represents symbolically the files in terms of whether the density thereof is high or low, based on a value of the predetermined attribute (figure 44, 47, reference 208 and col. 21 lines 16-22); and

displaying the objects representing the plurality of files at the respective display positions on a screen, and expressing visually a comparison of the density of the objects with each other object (col. 9 lines 23-25 and figures 46-47).

Aoki fails to expressly teach a virtual buoyant force exerted on the predetermined object displayed on the screen in at least one direction. Brosnan, however, teaches virtual buoyant force exerted on the predetermined object displayed on the screen in at least one direction (0073, 0130) for simulating the movement of objects in a display.

In the same field of endeavor, (i.e. displaying objects according to their attributes), it would have been obvious to one of ordinary skill in the data processing art

Art Unit: 2167

at the time of the present invention to combine the teachings of the cited references because the virtual forces, as provided by Brosnan, would have given Aoki's system better visualization of data items represented on a screen for the benefit of a user to better understand the placement of data relative to other data and furthermore making it easier for a user to manage that data (need shown by Aoki at col. 2 line 10-16).

With respect to claim 25, Aoki teaches a computer-readable recording medium which stores a program executable by a computer, the program including the functions of:

acquiring values of a predetermined attribute for a plurality of intended files (102, detecting characteristics) in order to represent the values of the predetermined attribute therefor by using a concept of density (as thickness; col. 10, line 10, col. 11 line 24-27, col. 24 lines 16-20 and figures 8, 46, 47, and density; col. 20, line 30-45 and line 55-65);

setting, for each of the plurality of files, a relative display position of a predetermined object representing symbolically the files in terms of whether the density thereof is high or low, based on the values of the predetermined attribute (figure 44, 47, reference 208 and col. 21 lines 16-22); and

displaying on a screen the objects of the plurality of files at the respective display positions, and expressing visually comparison of the density of the objects with each other object (col. 9 lines 23-25 and figures 46-47).

Aoki fails to expressly teach a virtual buoyant force exerted on the predetermined object displayed on the screen in at least one direction.

Art Unit: 2167

Brosnan, however, teaches virtual buoyant force exerted on the predetermined object displayed on the screen in at least one direction (0073, 0130) for simulating the movement of objects in a display.

In the same field of endeavor, (i.e. displaying objects according to their attributes), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because the virtual forces, as provided by Brosnan, would have given Aoki's system better visualization of data items represented on a screen for the benefit of a user to better understand the placement of data relative to other data and furthermore making it easier for a user to manage that data (need shown by Aoki at col. 2 line 10-16).

Claims 2 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki and Brosnan as applied to claims 1, 3-6, 9, 10, 12-14, 16, and 20-25 above further in view of Vaananen et al. (Vaananen hereinafter) U.S. Patent Application 2002/0175896 A1.

With respect to claim 2 and similar claim 11, Aoki and Brosnan fail to teach a file processing apparatus according further including an inclination detector which detects inclination of a predetermined region in the file processing apparatus operated by a user, wherein according to the inclination detected by said inclination detector said position determining unit varies the relative display position and the direction in which the force is exerted.

Art Unit: 2167

Vaananen, however, teaches this limitation as element 50 of figures 2 and 5 and paragraph 0078. Therein an accelerator sensor is disclosed to measure tilting movements.

It would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because the teachings of Vaananen would have provided Aoki-Brosnan's system with the ability to vary a relative display position to obtain an easier to use user interface. Vaananen suggests in paragraph 0009 a need for a less "slow and awkward" method of data browsing. Aoki suggests in column 2, lines 2-4 a need to be able to access and manage data in a straightforward manner.

Claims 7, 8, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Aoki and Brosnan as applied to claims 1, 3-6, 9, 10, 12-14, 16, and 20-25 above further in view of Adler et al ("Adler" hereinafter) U.S. Patent 6,340,957.

With respect to claim 7 and similar claims 8 and 15, Aoki and Brosnan teach a file processing apparatus as applied to claims 1, 3-6, 9, 10, 12-14, 6, and 20-25 above.

Aoki and Brosnan fail to teach a file processing apparatus further including a vibration detector which detects a swaying motion at a predetermined region of the file processing apparatus operated by a user, wherein said comparison processing unit performs a comparison processing when the motion is detected, and said position

determining unit updates the relative display position according to the result obtained from said comparison processing unit.

Adler, however, teaches these limitations from at least (col. 15 lines 15-22). Therein displayed data is manipulated according to vibration for accessing and managing data in a straightforward manner.

It would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because this feature of Adler would have satisfied Aoki-Brosnan's need for accessing and managing data in a straightforward manner which is needed by Aoki (column 2 line 12-17 and column 12 lines 15-23). Further, data would be displayed accordingly in response to detecting a vibration for the benefit of allowing the data to be readily visible as is needed by Aoki.

#### Response to Arguments

Applicant's remarks filed 8/14/2007 have been fully considered but they are not persuasive.

Applicant argues on page 13 (last paragraph) of the remarks that Aoki does not disclose or suggest the concept of density as recited in the claims and likewise, Aoki does not indicate a display representation of an attribute based on the concept of weight. The Examiner respectfully disagrees because as seen and cited, Aoki describes the concept of density (col. 20 lines 30-67 and further illustrated in figures 44-47). Specifically, Aoki discloses judging the density of data (co. 20 line 38). A figure

Art Unit: 2167

representing the dense object is placed in according subspaces with respect to its density. Figure 47 also shows a dense object (i.e. thick object 208) being placed deep on the z-axis (i.e. the z-axis represents depth) of the graph.

Furthermore, Aoki using density to describe an object on display also suggests a concept of weight as defined in the claims. That is a dense object represents a heavy object. The Applicant contends this rationale to be false as in the example of a hot air balloon and a feather (i.e. a hot air balloon is heavier, but less dense than a feather). Respectfully, the Examiner finds this analogy unpersuasive, as a basic definition of density is weight per unit of volume and further describes the relative heaviness of objects. Therefore, Aoki still teaches a concept of weight and a concept of density.

The Applicant further argues that neither reference teaches a virtual force is exerted on the object (remarks at page 14). The Examiner respectfully submits that Brosnan teaches at least this limitation. Specifically, Brosnan teaches effecting a virtual force (such as gravity and buoyancy), to simulate the movement of objects through air or water (Brosnan at 0129-1030) to further suggest a virtual force implying the weight and density of an object.

<sup>&</sup>lt;sup>1</sup> density. (n.d.). *The American Heritage*® *New Dictionary of Cultural Literacy, Third Edition*. Retrieved October 24, 2007, from Dictionary.com website: http://dictionary.reference.com/browse/density

Art Unit: 2167

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Robert M. Timblin whose telephone number is 571-272-

5627. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John R. Cottingham can be reached on 571-272-7079. The fax phone

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Art Unt 2167

Page 23